Mattia D'Urso

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github.com/mattiadurso
Main languages: Python, R

Education

Oct 2020 -
Oct 2022
Master of Science in Artificial Intelligence and Cybersecurity,
University of Studies of Udine (Italy).
GPA: 29.2/30

Oct 2020 -
Oct 2022
Master of Science in Artificial Intelligence and Cybersecurity,
Alpen-Adria-Universität Klagenfurt (Austria).

Oct 2017 -
Oct 2020
Bachelor of Science (Hons) in Internet of Things, Big Data and Web,
University of Studies of Udine (Italy).

- **Bachelor Thesis:** "*Classification of web users by shallow inspection of packets and Deep Learning techniques*"

Experiences

Mar 2021 –
Current
Research, Artificial Vision and Real-Time Systems (AViReS) Lab, under supervision of Prof. Gian Luca Foresti and in collaboration with the European Defence Agency (EDA), the European Union, the Italian Ministry for the University and Research (MIUR), the Italian Ministry for Defence (MoD).
- Developed a deep learning model with **Torchvision** for autonomous flight with drones using computer vision.

Jul 2020 –
Sep 2020
Research, Department of Mathematics, Computer Science and Physics of University of Studies of Udine, under supervision of Prof. Claudio Piciarelli and prof. Marino Miculan.
- Optimized our supervised deep learning model with **Pytorch** for classification of web users on a dataset of 6M+ of TCP/IP packets.
- Increased the accuracy of the model by 42% by hyperparameters fine tuning.

Skills

- **Languages:** Python, R, LATEX
- **Libraries:** Pytorch, Torchvision, NumPy, dplyr, tidyverse, ggplot2

Research Interests

- **Computer Vision**
- **Deep Learning**

Leadership and Awards

Oct 2020 -
Oct 2022
Master of Science program, selected as one of 30 participants worldwide for the Double Degree Master program in *Artificial Intelligence and Cybersecurity*.

Oct 2018 -
Today
Student representative, reported to the Board of department and solved dozens of students problems of any kind.

Jan 2018 -
Today
Professional photographer, worked independently and as a team in weddings, Michelin starry events in the area and others.